

#### Benefits

- 1000 cycles 50% DOD
- Good large current discharge performance
- High gas recombination efficiency
- Maximum charge efficiency
- Low self-discharge rate
- Easy installation and handling

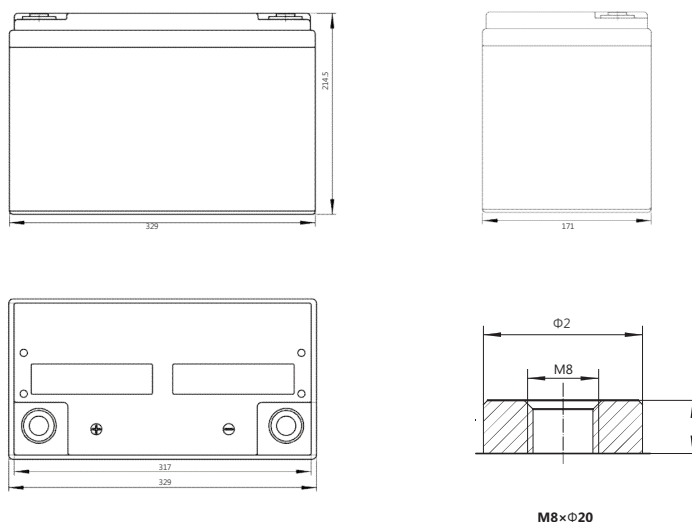
#### Applications

- Electrical Vehicle
- Mixture Electrical vehicle

#### Standards

- GB/T 18332.1
- QC/T 742
- IEC61982-3
- GB/T 7403.1
- GB/T 23636
- TS1352 EN60896-21/22

#### Drawing



#### Specifications

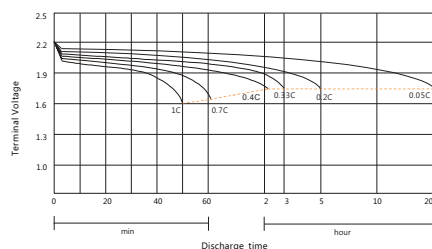
|                                       |                                              |                    |                     |                   |
|---------------------------------------|----------------------------------------------|--------------------|---------------------|-------------------|
| Battery Model                         | SPG120-12 AGS ( 12V-120Ah)                   |                    |                     |                   |
| Design Life (50% DOD)                 | 1.000 cycles                                 |                    |                     |                   |
| Capacity (Ah, 25°C)                   | 20HR (6A, 1.75V)                             | 5HR (22.0A, 1.75V) | 3HR (33.33A, 1.75V) | 2HR(46.0A, 1.75V) |
|                                       | 120                                          | 110                | 100                 | 92                |
| Dimensions (mm)                       | Length                                       | Width              | Height              | Total Height      |
|                                       | 329                                          | 171                | 214.5               | 214.5             |
| Approx. Weight (kg)                   | 34.5                                         |                    |                     |                   |
| Reference Internal Resistance (mΩ)    | 5.0 ( full charged @ 25°C)                   |                    |                     |                   |
| Maximum Discharge Current (A/10 Sec.) | 900                                          |                    |                     |                   |
| Self-Discharge (25°C)                 | ≤ 3% per month                               |                    |                     |                   |
| Charge Voltage (V/cell, 25°C)         | Cycle use                                    |                    | Float use           |                   |
|                                       | 2.45 (-3mV/°C/cell), max charge current: 15A |                    | 2.35 (-3mV/°C/cell) |                   |

#### Discharge Data

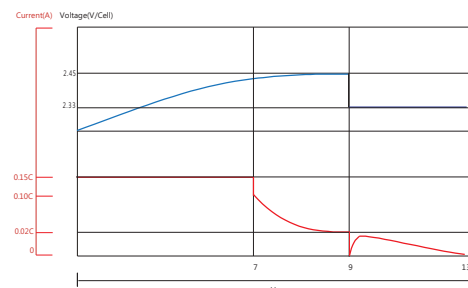
| Constant Current Discharge Data (25°C, A) |       |       |       |       |       |       |       |       |       |       |       |
|-------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| End Voltage (V/cell)                      | min   |       |       |       |       | h     |       |       |       |       |       |
|                                           | 10    | 20    | 30    | 45    | 60    | 1.5   | 2     | 3     | 5     | 10    | 20    |
| 1.60                                      | 241.8 | 160.3 | 120.5 | 89.63 | 75.92 | 59.76 | 47.20 | 33.97 | 22.40 | 11.47 | 6.080 |
| 1.65                                      | 236.4 | 157.1 | 118.6 | 88.19 | 74.83 | 59.15 | 46.83 | 33.83 | 22.29 | 11.44 | 6.060 |
| 1.70                                      | 229.0 | 153.3 | 116.0 | 86.60 | 74.02 | 58.61 | 46.50 | 33.63 | 22.18 | 11.38 | 6.034 |
| 1.75                                      | 219.3 | 150.5 | 114.0 | 85.33 | 73.00 | 57.93 | 46.00 | 33.33 | 22.00 | 11.30 | 6.000 |
| 1.80                                      | 208.1 | 144.8 | 110.2 | 82.86 | 71.07 | 56.58 | 45.08 | 32.74 | 21.69 | 11.18 | 5.954 |

| Constant Current Discharge Data (25°C, W/cell) |       |       |       |       |       |       |       |       |       |       |       |
|------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| End Voltage (V/cell)                           | min   |       |       |       |       | h     |       |       |       |       |       |
|                                                | 10    | 20    | 30    | 45    | 60    | 1.5   | 2     | 3     | 5     | 10    | 20    |
| 1.60                                           | 396.9 | 288.7 | 222.2 | 169.3 | 146.5 | 117.0 | 93.29 | 67.59 | 44.74 | 22.99 | 11.60 |
| 1.65                                           | 388.0 | 287.3 | 221.1 | 167.9 | 145.3 | 116.3 | 92.88 | 67.72 | 44.70 | 22.99 | 11.60 |
| 1.70                                           | 375.8 | 283.6 | 218.6 | 166.0 | 144.3 | 115.6 | 92.37 | 67.18 | 44.43 | 22.87 | 11.54 |
| 1.75                                           | 360.0 | 281.9 | 216.8 | 164.8 | 143.0 | 114.6 | 91.54 | 66.74 | 44.21 | 22.77 | 11.50 |
| 1.80                                           | 344.0 | 276.0 | 212.3 | 161.3 | 139.8 | 112.3 | 90.13 | 65.76 | 43.74 | 22.56 | 11.43 |

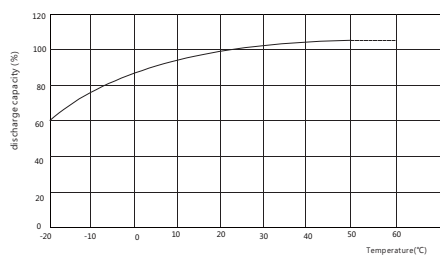
#### Performance Curve



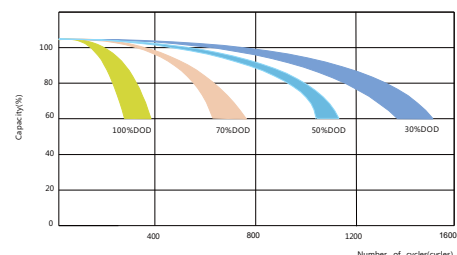
Discharging performance



Charge performance



Discharge capacity vs. temperature



Cycles vs. discharge depth